



Launch Mission Execution Forecast

Mission: Atlas V USSF-8

Issued: 17 Jan 2022 / 0900L (1400Z)

Valid: 21 Jan 2022 / DURING WINDOW



Forecast Discussion: A stretch of cool, dry, and pleasant weather is expected through Thursday as high pressure shifts from the Gulf of Mexico into the western Atlantic. The next cold front is slated to approach the area Friday, though both its placement and timing is somewhat uncertain. While forecast models generally agree that the system will weaken as it approaches central Florida, moisture pooling along and ahead of the boundary will increase cloud cover through the day. Thus, the primary concerns for launch day are the Thick Cloud Layer and Cumulus Cloud Rules. Breezy onshore flow is expected to develop behind the front on Saturday, along with a small chance of shallow onshore moving showers.

Launch Day	Probability of Violating Weather Constraints						
	40%	Primary Concerns: Thick Cloud Layer Rule, Cumulus Cloud Rule					
	Weather Conditions					Additional Risk Criteria	
	Weather/Visibility:	Isolated Showers / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Solar Activity: Low
	Temp/Humidity:	69°F / 70%	Cumulus	Scattered	2,500	8,000	
Ground Winds (230'):	340° 14 - 18 knots	Cirrostratus	Broken	18,000	22,000		
24-Hour Delay	Probability of Violating Weather Constraints						
	30%	Primary Concerns: Cumulus Cloud Rule					
	Weather Conditions					Additional Risk Criteria	
	Weather/Visibility:	Isolated Showers / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Solar Activity: Low
	Temp/Humidity:	64°F / 62%	Cumulus	Scattered	2,500	8,000	
Ground Winds (230'):	030° 19 - 23 knots	Altocumulus	Scattered	12,000	16,000		
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear and solar activity.							
Next Forecast Will Be Issued		18 Jan 2022					